

isc Silicon NPN Power Transistor

2SC4467

DESCRIPTION

- High Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= 120V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SA1694
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

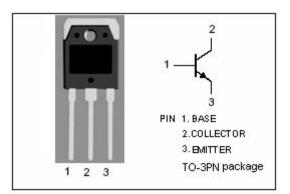
APPLICATIONS

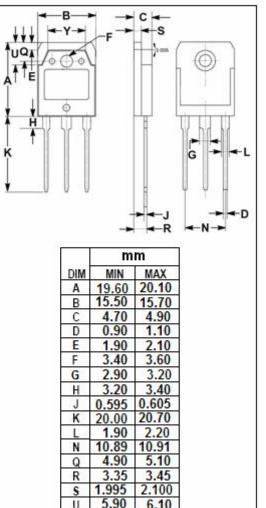
· Designed for audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	160	V
Vceo	Collector-Emitter Voltage	120	V
V _{EBO}	Emitter-Base Voltage	6	V
lc	Collector Current-Continuous	8	A
lв	Base Current-Continuous	3	A
Pc	Collector Power Dissipation @ Tc=25°C	80	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

1





Y

9.90



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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	Ic= 50mA ; I _B = 0	120			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.3A			1.5	V
І _{сво}	Collector Cutoff Current	V _{CB} = 160V ; I _E = 0			10	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 6V; I _C = 0			10	μA
h _{FE}	DC Current Gain	I _C = 3A ; V _{CE} = 4V	50		180	
Сов	Output Capacitance	I _E = 0 ; V _{CB} = 10V;f= 1.0MHz		200		pF
f⊤	Current-Gain—Bandwidth Product	I _E = -0.5A ; V _{CE} = 12V		20		MHz

Switching Times

t _{on}	Turn-on Time		0.13	μ S
t _{stg}	Storage Time	I _C = 4A ,R _L = 10 Ω , I _{B1} = -I _{B2} = 0.4A,V _{CC} = 40V	3.5	μ S
tf	Fall Time		0.32	μ S

2

• h_{FE} Classifications

0	Р	Y
50-100	70-140	90-180



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3